

CLAIMS

1. Catalyst composition comprising anionic clay, lanthanum (hydr)oxide carbonate, and cerium oxide.
- 5 2. Composition according to claim 1 comprising 10-50 wt% lanthanum (hydr)oxide carbonate, 5-20 wt% cerium oxide, and balance anionic clay, all calculated as oxides and based on the total weight of the composition.
- 10 3. Composition according to claim 1 or 2 wherein the anionic clay is an Mg-Al, Zn-Al, Cu-Al, Mg-Co, and/or Mg-Fe anionic clay.
4. Process for the preparation of a catalyst composition according to any one of the preceding claims, comprising the steps of:
 - 15 a. forming a precipitate from a solution comprising a divalent metal salt, a trivalent metal salt, a lanthanum salt, and a cerium salt,
 - b. calcining the precipitate at 200-800°C, and
 - c. rehydrating the calcined precipitate in the presence of a carbonate source to form a composition comprising anionic clay, lanthanum
 - 20 (hydr)oxide carbonate, and cerium oxide.
5. Use of the catalyst composition according to any one of claims 1-3 in an FCC process.
- 25 6. Use according to claim 5 for the reduction of NO_x and/or SO_x emissions.
7. Use according to claim 5 for the reduction of the S and/or N-content in fuels.
- 30 8. Use according to claim 5 for the passivation of Ni and V.